

State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Engineering Division  
Honolulu, Hawaii 96813

May 13, 2011

Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii

**Request to Hire a Consultant for National Flood Insurance Program (NFIP)  
Development of Phase II of the Mobile Device Application for NFIP Site Inspections**

The Hawaii National Flood Insurance Program (NFIP) within the Engineering Division desires to retain the services of a consultant to continue in the development of a mobile data collection device application for use during field site inspections. This service requires technical expertise in developing an application for a mobile device and utilizing Environmental Systems Research Institute's (ESRI) ArcPad 10, ArcGIS Mobile 10, and/or ArcGIS Server 10 software, C# programming language, and Microsoft SQL Server 2008; and/or similar current software. The application must provide for data synchronization between the mobile and the backend databases (on or off the field) via wireless Internet connection in a real-time mode and allow overlaying of FEMA's Digital Flood Insurance Rate Maps, county parcel layers, and/or digital orthography over a street layer on the mobile device for site navigation. In addition, the services will include on-going maintenance and interface to existing mobile applications, the Hawaii Flood Hazard Assessment Tool, and related website/portal.

The National Flood Insurance Program (NFIP) within the Department of Land and Natural Resources Engineering Division (DLNR) has been designated as the State Coordinating Agency responsible for assisting the coordination of the NFIP between the federal and county agencies in Hawaii. Development in Special Flood Hazard Areas (SFHAs) as identified on Flood Insurance Rate Maps (FIRMs) is regulated by the NFIP. To verify compliance with this regulatory function, DLNR conducts periodic site inspections. The site inspection process is a means of ensuring that the counties adhere to the minimum NFIP floodplain management and regulations.

Federal funds for this project are available through FEMA's Cooperating Technical Partners Grant (EMF-2009-GR-0906) and FEMA's Community Assistance Program – State Support Services Element Grant (EMF-2011-GR-1103). No State matching funds are required for the CTP grant and the 25% cost share for the CAP-SSSE grant has already been achieved through in-kind services for other tasks required under the CAP-SSSE grant agreement.


**RECOMMENDATION:**

1. That the Board of Land and Natural Resources authorize the hiring of a consultant for the project indicated and authorize the Chairperson to sign the necessary documents pertaining to the project, subject to review and approval by the Attorney General and Governor's approval.
2. That the Board of Land and Natural Resources authorize the Chairperson, subject to review and approval by the Attorney General, to enter into supplemental contracts to address unforeseen conditions and sign the necessary documents to implement the additional work with the consultant.

Respectfully submitted,

  
CARTY S. CHANG  
Chief Engineer

APPROVED FOR SUBMITTAL:

  
WILLIAM J. AILA JR., Chairperson  
Board of Land and Natural Resources

**ITEM L-2**